

## Safflower yellow

## Chemical Properties

CAS No. : 1401-20-3

Formula:

Molecular Weight:

Safflower yellow

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Safflower yellow (Saffron powder) is extracted from the flowers of the plant safflower ( <i>Carthamus tinctorius</i> ). As traditional Chinese medicine, safflower has been extensively used for the treatment of cardio-cerebrovascular diseases.
Targets(IC50)	Others
In vivo	Safflower yellow is extracted from safflower, which is one of Chinese herbal medicines. Safflower Yellow is a mixture of water-soluble chalcone components, of which Hydroxy Safflower Yellow A (HSYA) and Safflower Yellow B (SYB) are the main components. Safflower yellow can activate blood circulation and remove blood stasis, and improve capillary circulation at the site of tissue damage. Injection of safflower can improve cardiac systolic and dilated functions, increase coronary blood flow, enhance bcl-2 protein expression, and have good cardioprotective effects. Safflower yellow can also reduce the adhesion and inflammatory reaction of injured tendon, and promote the repair of injured tendon [1].

## Solubility Information

Solubility	DMSO: 30 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL, Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Reference

Zhou D, et al. The effect of safflower yellow on spinal cord ischemia reperfusion injury in rabbits. *Oxid Med Cell Longev.* 2013;2013:692302.

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